pr cofe

Docket No.: M4065.0700/P700-A (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of: Terry L. Gilton et al.

Patent No.: 6,812,087

Issued: November 2, 2004

For: METHODS OF FORMING NON-VOLATIVE RESISTANCE VARIABLE DEVICES AND METHODS OF FORMING SILVER SELENIDE COMPRISING

STRUCTURES

Certificate MAY 1 3 2005

of Correction

REQUEST TO CORRECT A CERTIFICATE OF CORRECTION PURSUANT TO 37 CFR 1.322 AND REQUEST FOR RECONSIDERATION

MS Post Issue Decisions & Certificates of Correction Branch P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Upon reviewing the attached Certificate of Correction for the above-identified patent, Patentee noted a typographical error which should be corrected. On page 3 of the Patent, OTHER PUBLICATIONS, the following correction, listed on the original Request for Correction (copy attached), was not included on the Certificate of Correction:

Column 1, Ref. #12 "Shimizu et al., "The Photo-Erasable Memory Switching Effect of Ag Photo-Doped d Chalcogenide Glasses," 46 BUL. CHEM. SOC. Japan, No. 12, pp. 3662-3665, December 1973." should read --Shimizu et al., "The Photo-Erasable Memory Switching Effect of Ag Photo-Doped Chalcogenide Glasses," 46 BUL. CHEM. SOC. Japan, No. 12, pp. 3662-3665, December 1973.--

Patent No.: 6,812,087 Docket No.: M4065.0700/P700-A

Also, page 2 of the Certificate of Correction, Ref. #7 contains a spelling error.

Tregouet, Y.; Bernede, J.C., "Silver movements in Ag2Te thin films: switching and memory ff cts, This Solid Films 57 (1979) 49-54." should read --Tregouet, Y.; Bernede, J.C., Silver movements in Ag2Te thin films: switching and memory effects, Thin Solid Films 57 (1979) 49-54.--

REQUEST FOR RECONSIDERATION

In response to the denial to correct reference #2, dated April 4, 2005, reconsideration of the request to correct reference #2 under OTHER PUBLICATIONS on the cover page is solicited. The U.S. Patent Application Ser. No. 6,418,049 is a U.S. Patent No. and is already listed under U.S. PATENT DOCUMENTS on page 2 of the above-identified patent as belonging to Kozicki et al.

Additionally, U.S. Patent Application Ser. No. 10/232,757 was correctly listed on the IDS citation (copy attached) as filed by the applicants.

Accordingly, the following change is requested:

U.S. patent application Ser. No. 6,418,049, Li et al., filed Jul. 23, 2002." should read --U.S. patent application Ser. No. 10/232,757, Li et al.--

Patent No.: 6,812,087 Docket No.: M4065.0700/P700-A

Transmitted herewith is a proposed Certificate of Correction effecting such amendments. Patentees respectfully solicit the granting of the requested corrected Certificate of Correction and believe no fee is involved.

Dated: May 6, 2005

Respectfully submitted,

Thomas J. D'Amico

Registration No.: 28,371

Elizabeth Parsons

Registration No.: 52,499

DICKSTEIN SHAPIRO MORIN &

OSHINSKY LLP

2101 L Street NW

Washington, DC 20037-1526

(202) 785-9700

Attorneys for Applicants

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. (Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page _1_ of _1

PATENT NO.

6.812.087

APPLICATION NO. :

10/634.897

ISSUE DATE

November 2, 2004

INVENTOR(S)

Terry L. Gilton et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

OTHER PUBLICATIONS

U.S. patent application Ser. No. 6,418,049, Li et al., filed Jul. 23, 2002." should read --U.S. patent application Ser. No. 10/232,757, Li et al.--

On page 3 OTHER PUBLICATIONS:

Shimizu et al., "The Photo-Erasable Memory Switching Effect of Ag Photo-Doped d Chalcogenide Glasses," 46 BUL. CHEM. SOC. Japan, No. 12, pp. 3662-3665, December 1973." Should read --Shimizu et al., "The Photo-Erasable Memory Switching Effect of Ag Photo-Doped Chalcogenide Glasses," 46 BUL. CHEM. SOC. Japan, No. 12, pp. 3662-3665, December 1973.--

On page 7 OTHER PUBLICATIONS

Tregouet, Y.; Bernede, J.C., "Silver movements in Ag2Te thin films: switching and memory ff cts, This Solid Films 57 (1979) 49-54." should read -- Tregouet, Y.; Bernede, J.C., Silver movements in Ag2Te thin films: switching and memory effects, Thin Solid Films 57 (1979) 49-54.--

MAILING ADDRESS OF SENDER (Please do not use customer number below): Thomas J. D'Amico DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP 2101 L Street NW Washington, DC 20037-1526

Patent No.: 6,812,087 Docket No.: M4065.0700/P700-A

On Page 3 OTHER PUBLICATIONS:



Column 1, Ref. #8 "Miyatani, Electrical properties of Ag2Se, —J. Phys. Soc. Japan, p. 317, 1958." should read --Miyatani, Electrical Properties of Ag₂Se, 13 J. Phys. Soc. Japan, p. 317, 1958.--

Column 1, Ref. #11 "Safran et al., "TEM study of Ag₂Se developed by the reaction of polycrystalline silver films and s l nium," 317 Thin Solid Films, pp. 72-76, 1998." should read --Safran et al., "TEM study of Ag₂Se developed by the reaction of polycrystalline silver films and selenium," 317 Thin Solid Films, pp. 72-76, 1998.--

Column 1, Ref. #12 "Shimizu et al., "The Photo-Erasable Memory Switching Effect of Ag Photo-Doped d Chalcogenide Glasses," 46 BUL. CHEM. SOC. Japan, No. 12, pp. 3662-3665, December 1973." should read --Shimizu et al., "The Photo-Erasable Memory Switching Effect of Ag Photo-Doped Chalcogenide Glasses," 46 BUL. CHEM. SOC. Japan, No. 12, pp. 3662-3665, December 1973.--

→ On Page 4

Column 1, Ref. #4 "Asokan, S.; Prasad, M.V.N.; Parthasarathy, G.; Gopal, E.S.R., Mechanical and ch mical thr sholds in IV-VI chalcogenide glasses, Phys. R v. L 62 (1989) 808-810." should read --Asokan, S.; Prasad, M.V.N.; Parthasarathy, G.; Gopal, E.S.R., Mechanical and chemical thresholds in IV-VI chalcogenide glasses, Phys. Rev. Lett, 62 (1989) 808-810.--

Column 2, Ref. #7 "Br ss r, W.J.; Boolchand, P.; Suranyi, P.; Hernandez, J.G., Molecular phase separation and cluster siz in G S 2 glass, Hyperfine Interactions 27 (1986) 389-392." should read --Bresser, W.J.; Boolchand, P.; Suranyi, P.; Hernandez, J.G., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1986) 389-392.--

Column 2, Ref. #8 "Cahen, D.; Gilet, J.-M.; Schmitz, C.; Ch rnyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CulnSe2 Crystals, Science 258 (1992) 271-274." should read -- Cahen, D.; Gilet, J. M.; Schmitz, C.; Ch rnyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CulnSe2 Crystals, Science 258 (1992) 271-274.--

On Page 5

Column 1, Ref. #2 "El Bouchairi, B.; Bernede, J.C.; Burgaud, P., Propeties of Ag2-xSe1 +x/n-Si diodes, Thin Solid Films 110 (1983) 107-113." should read -- El Bouchairi, B.; Bernede, J.C.; Burgaud, P., Properties of Ag2-xSe1 +x/n-Si diodes, Thin Solid Films 110 (1983) 107-113.--



PTC/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449A/B/PTO Application Number 10/634,897 INFORMATION DISCLOSURE August 6, 2003 Filing Date STATEMENT BY APPLICANT First Named Inventor Terry L. Gilton N/A Art Unit (Use as many sheets as necessary) Not Yet Assigned **Examiner Name** M4065.0700/P700-A Sheet 1 of 11 Attorney Docket Number

					Art Unit	N/A		D.
	(U	lse as many she	ets as ne	cessary)	Examiner Name	Not Yet A	Not Yet Assigned	
Sheet	eet 1		of	11	Attorney Docket Number	M4065.0700/P700-A		
								Lines, Where
_								
				U.S. PA	TENT DOCUMENTS		<u> </u>	
Examiner	Cite	Document Number		Publication Date	Name of Patentee or		Pages, Columns, Lines, Where Relevant Passages or Relevant	
Initials*	No.1	Number-Kind Code ² (if known)		MM-DD-YYYY	Applicant of Cited Document		Figures A	
	AA	US-6,117,72	0	09/12/2000	Harshfield		†	
_	AB	US-3,450,96		06/17/1969	Tolutis	-		
	AC	US-4,350,54		09/21/1982	Mizushima et al.			
	AD	US-1,131,74		02/03/1969	Tolutis			
*	AE	US-3,622,31		11/23/1971	Sharp			
•	AF	US-3,743,84		07/03/1973	Boland			
*	AG			05/26/1981	Masters et al.			
•	ΑĤ	H US-4,312,938		01/26/1982	Drexler et al.			
*	A	US-4,320,191		03/16/1982	Yoshikawa et al.			
•	AJ				Formigoni et al.			
*	AK	US-4,847,67		07/11/1989	Silwa et al.			
*	AL	US-5,177,56	7	01/05/1993	Kiersy et al.			
*	AM	US-5,219,78	8	06/15/1993	Abernathey et al.			
*	AN	US-5,726,08		03/10/1998	Takaishi			
h	AO	US-5,751,01		05/12/1998	Wolstenholme et al.			
*	AP	US-5,789,27		08/04/1998	Zahorik et al.		ļ	
•	AQ	US-5,841,15		11/24/1998	Gonzalez et al.			
•	AR	US-5,920,78		07/06/1999	Reinberg			
•	AS	US-5,998,06		12/07/1999	Block et al.			
*	AT	US-6,077,72		06/20/2000	Harshfield			
*	AU	US-6,236,05		05/22/2001	Wolstenholme et al.			
<u>* </u>	AV	US-6,297,17		10/02/2001	Gabriel et al.	<u> </u>		
<u>* </u>	AW	US-6,300,68		10/09/2001	Gonzalez et al.		ļ	
*	AX	US-6,316,78			Zahorik et al.			
-	AY	US-6,329,60		12/11/2001	Freyman et al.		 	
*	AZ	US-6,348,36		02/19/2002	Moore et al.		+	
-	<u>a</u>	US-6,376,28		04/23/2002	Gonzalez et al.			
<u>-</u>	b	US-6,391,68		05/21/2002	Gonzalez et al.		 	
-	С	US-6,414,37		07/02/2002	Thakur et al.		 	
-	d	US-6,418,04		07/09/2002	Kozicki et al.			
-	e	US-6,423,62		07/23/2002	Li et al.		 	
•	f	US-10/077,8		 	Campbell et al. (as filed)	····	+	
*	9	US-10/232,7		40/0000	Li et al. (as filed)			
*	h	US-6,473,33		10/2002	Ignatiev et al.		+	
-	- 	US-6,469,36		10/2002	Kozicki			
_	1	US-2002/016 App.	08820	11/2002	Kozicki			
•	К	US-4,316,94	6	1/1982	Masters, et al.			
*	Î	US-4,419,42	1	12/1983	Wichelhaus, et al.			
*	m	US-6,487,10		11/26/2002	Kozicki			
*	n	US-5,314,77		5/24/1994	Kozicki			
*	0	US-2002/019		12/19/2002	Kozicki			
ł	٦	APP		1				
		1			·			

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,812,087 B2

: November 2, 2004

Page 1 of 3

DATED INVENTOR(S) : Terry L. Gilton et al.

> It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page,

Item [75], Inventors, "Giltom" should read -- Gilton --

Item [56], References Cited, U.S. PATENT DOCUMENTS, insert

-- 6,423,628 B1 7/2002 Li et al.

6,473,332

10/2002

Ignatiev et al. --

"Miyatani, Electrical properties of Ag2Se, —J. Phys. Soc. Japan, p. 317, 1958." should read --Miyatani, Electrical Properties of Ag₂Se, 13 J. Phys. Soc. Japan, p. 317,1958. --

"Safran et al, "TEM study of Ag₂Se developed by the reaction of polycrystalline silver films and s I nium," 317 Thin Solid Films, pp. 72-76, 1998." should read -- Safran et al., "TEM study of Ag₂Se developed by the reaction of polycrystalline silver films and selenium," 317 Thin Solid Films, pp. 72-76,1998. --

"Asokan, S.; Prasad, M.V.N.; Parthasarathy, G.; Gopal, E.S.R., Mechanical and ch mical thr sholds in IV-VI chalcogenide glasses, Phys. R v. L 62 (1989) 808410." should read --Asokan, S.; Prasad, M.V.N.; Parthasarathy, G.; Gopal, E.S.R., Mechanical and chemical thresholds in IV-VI chalcogenide glasses, Phys. Rev. Lett, 62 (1989) 808-410.--

"Br ss r, W.J.; Boolchand, P.; Suranyl, P.; Hernandez, J.G., Molecular phase separation and cluster siz In G S 2 glass, Hyperfine Interactions 27 (1986) 389-392." should read --Bresser, W.J.; Boolchand, P.; Suranyi, P.; Hernandez, J.G., Molecular phase separation and cluster size in GeSe2 glass, Hyperfine Interactions 27 (1986) 389-392.--

"Cahen, D.; Gilet, J.-M.; Schmitz, C.; Chrnyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CuInSe2 Crystals, Science 258 (1992) 271-274." should read -- Cahen, D.; Gilet, J. M.; Schmitz, C.; Chernyak, L.; Gartsman, K.; Jakubowicz, A., Room-Temperature, electric field induced creation of stable devices in CulnSe2 Crystals, Science 258 (1992) 271-274.--

"El Bouchairi, B.; Bemede, J.C.; Burgaud, P., Propeties of Ag2-xSel +x/n-Si diodes, Thin Solid Films 110 (1983) 107-113." should read -- El Bouchairi, B.; Bernede, J.C.; Burgaud, P., Properties of Ag2-xSel +x/n-Si diodes, Thin Solid Films 110 (1983) 107-113. --

"Fadel, M., Switching ph nom non in evaporated S -Ge-As thin films of amorphous chalcogenid glass, Vacuum 44 (1993) 851455." should read -- Fadel, M., Switching phenomenon in evaporated Se-Ge-As thin films of amorphous chalcogenide glass, Vacuum 44 (1993) 851-855:--

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,812,087 B2 Page 2 of 3

DATED : November 2, 2004 INVENTOR(S) : Terry L. Gilton et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page (cont'd),

"Fadel, M.; El-Shari, H.T., Electrical, thermal and optical properties f Se75Ge7Sbl8, Vacuum 43 (1992) 253-275." should read --Fadel, M.; El-Shari, H.T., Electrical, thermal and optical properties of Se75Ge7Sbl8, Vacuum 43 (1992) 253-257. --

"Hegab, N.A.; Fadel, M.; Sedeek, K., Memory switching pehnomena in thin films of chalcogenide semiconductors, Vacuum 45 (1994) 459-462." should read -- Hegab, N.A.; Fadel, M.; Sedeek, K., Memory switching phenomena in thin films of chalcogenide semiconductors, Vacuum 45 (1994) 459-462. --

"Hosokawa, S., Atomic and electronic structures of glassy GexSel-x around th stiffness threshold composition, J. Optoelectroncis and Advanced Materials 3 (2001) 199-214." should read -- Hosokawa, S., Atomic and electronic structures of glassy GexSel-x around the stiffness threshold composition, J. Optoelectronics and Advanced Materials 3 (2001) 199-214. --

"Matsushita, T.; Yamagami, T.; Okuda, M., Polarized memory eff ct observed on SeS-nO2 system, Jap. J. Appl. Phys. 11 (1972) 1657-1662." should read --Matsushita, T.; Yamagami, T.; Okuda, M., Polarized memory effect observed on Se-SnO₂ system, Jap. J. Appl. Phys. 11 (1972) 1657-1662.--

"Prakash, S.; Asokan, S.; Ghare, D.B., Easily rev rsible memory switching In G -As-Te glass s, J. Phys. D: Appl. Phys 29 (1996) 2004-2008." should read -- Prakash, S.; Asokan, S.; Ghare, D.B., Easily reversible memory switching in Ge-As-Te glasses, J. Phys. D: Appl. Phys. 29 (1996) 2004-2008. --

"Rahman, S.; Silvarama Sastry, G., El ctronic switching in Ge-Bi-Se-Te glasses, Mat Sci. and Eng. B12 (1992) 219-222." should read -- Rahman, S.; Silvarama Sastry, G., Electronic switching in Ge-Bi-Se-Te glasses, Mat. Sci and Eng. B12 (1992) 219-222.--

"Tregouet, Y.; Bernede, J.C., Silver movements in Ag2Te thin films: switching and memory ff cts, This Solid Films 57 (1979) 49-54." should read -- Tregouet, Y.; Bernede, J.C., Silver movements in Ag2Te thin films: switching and memory effects, This Solid Films 57 (1979) 49-54. --

"Uemura, O.; Kameda, Y.; Kokai, S.; Satow, T., Thermally induced crystallization f amorphous G 0.4S 0.6, J. Non-Cryst. Solids 117-118 (1990) 219-221." should read -- Uemura, O.; Kameda, Y.; Kokai, S.; Satow, T., Thermally induced crystallization of amorphous Ge0.4Se0.6, J. Non-Cryst Solids 117-118 (1990) 219-221. --

UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO.

: 6,812,087 B2

: November 2, 2004

Page 3 of 3

DATED

INVENTOR(S) : Terry L. Gilton et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1,

Line 50, "-of" should read -- of --

Column 8,

Line 59, "comprising least" should read -- comprising at least --



Signed and Sealed this Nineteenth Day of April, 2005

JON W. DUDAS Director of the United States Patent and Trademark Office